FORM PTO-1390	U.S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER							
(Rev 11-2000) TRANSM	ITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED	85934.000008							
OFFI	CE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known,							
	* .	see 37 0 9 37 0 8 3							
INTERNAT	IONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED							
PCT/EP00/0)2501 September 28, 2000	23 March, 1999							
TITLE OF IN	IVENTION SHAPED SEAL FOR SEALING A POWER-OPERATED O	CLOSING DEVICE							
	(S) FOR DO/EO/US Knut HOFMANN and BERND WESTERHOFF								
Applicant he	rewith submits to the United States Designated/Elected Office (DO/EO/US) the follow	ving items and other information:							
1. 🖂	This is a FIRST submission of items concerning a filing under 35 U.S.C. 37	71.							
2.	This is a SECOND or SUBSEQUENT submission of items concerning a fil	ling under 35 U.S.C. 371.							
3.	This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items								
4. 🖂	The US has been elected by the expiration of 19 months from the priority d	ate (Article 31).							
5.	A copy of the International Application as filed (35 U.S.C.(c)(2))								
	a. Is attached hereto (required only is not communicated by the Is	nternational Bureau)							
	b. As been communicated by the International Bureau.								
	c. is not required, as the application was filed in the United States	s Receiving Office (RO/US).							
6. 🖂	An English language translation of the International Application into Engli	sh (35 U.S.C. 371(c)(2)).							
.	a. 🛛 Is attached hereto.								
1	b. has been submitted under 35 U.S.C. 154(d)(4).								
7.	Amendments to the claims of the International Application under PCT Arti								
•	a.	International Bureau).							
	b. have been communicated by the International Bureau								
	c. have not been made; however, the time limit for making such	amendments has NOT expired.							
	d. have not been made and will not be made.								
8.	An English language translation of the amendments to the claims under PC	CT Article 19 (35 U.S.C. 371(c)(3)).							
9.	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	E amination Report under BCT							
10	An English language translation of the annexes to the International Prelimit Article 36 (35 U.S.C. 371(c)(5)).	mary Examination Report under FC1							
Items 11 to	20 below concern document(s) or information included:								
11.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98								
12.	An assignment document for recording. A separate cover sheet in complia	ance with 37 CFR 3.28 and 3.31 is included.							
13.	A FIRST preliminary amendment								
14.	A SECOND or SUBSEQUENT preliminary amendment								
15.	A substitute specification.								
16.	A change of power of attorney and/or address letter.								
17.	A computer-readable form of the sequence listing in accordance with PCT								
18.	A second copy of the published international application under 35 U.S.C.	154(d)(4).							
19.	A second copy of the English language translation of the international app	olication under 35 U.S.C. 154(d)(4).							
20.	20. Other items or information:								

U.S. APPLACATION NO.	937083	85934.000008	ATTORNEY'S DOCKET NUMBER 85934.000008							
21. The fo	llowing fees are submitt	ed								
BASIC NATIONAL FEE (37 CFR 1.492(a) (1) - (5) CALCULATIONS PTO USE ONLY										
nor international sear	preliminary examinatio rch fee (37 CFR 1.445(a arch Report not prepared		\$1000.0)						
		7 CFR 1.482) not paid to pared by the EPO or JPO	\$860.0							
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		id to USPTO (37 CFR 1.4 CT Article 33(1)-(4))						
International preliminary examination fee paid to USPTO (37 CFR 1.482) And all claims satisfied provisions of PCT Article 33(1)-(4)										
E	NTER APPROPR	IATE BASIC FEE .	AMOUNT =	\$860.00						
	o for furnishing the oath liest claimed priority dat	or declaration later than e (37 CFR 1.492(e)).	20 30	\$0.00						
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE							
Total Claims	9	0	X \$18.00							
Independent Claims	1 =	0	X \$78.00	\$0.00						
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		of CFR 1.21(h)). The assist (37 CFR 3.28, 3.31). \$		\$0.00						
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				Amount to be refunded:	\$					
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			Stephen B. Salai							
			NAME							
			26,990							
	REGISTRATION NUMBER									

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Metzeler Automotive Profiles

GmbH

Atty. Docket: 85934.000008

Serial No.:

not assign yet

Examiner:

Filed:

Art Unit:

Title:

SHAPED SEAL FOR SEALING A POWER-OPERATED CLOSING DEVICE

FIRST PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to examining the application please amend the claims to read as follows, a copy of the claims showing the changes is attached as Attachment A.

CLAIMS

- 1. A shaped seal for sealing a power-operated closing device, including an anti-trap guard comprising at least two electrically conductive portions spaced away from each other, whose contact triggers a switching action for activating the drive assembly of said closing device, at least one of said portions being electrically conductive connected to a metallic conductor to reduce the volume resistivity, characterized in that said metallic conductor is configured as a carrier for securing said shaped seal and/or as a flange or frame to which said shaped seal is securable.
- 2. The shaped seal as set forth in claim 1, characterized in that said carrier contacts said electrically conductive portion.
- 3. The shaped seal as set forth in claim 1, characterized in that said carrier is surrounded partly or fully by said electrically conductive portion.
- 4. The shaped seal as set forth in claim 1, characterized in that said carrier is provided with recesses.
- 5. The shaped seal as set forth in claim 1, characterized in that said electrically conductive portion extends up to the outer side of said shaped seal.

- 6. The shaped seal as set forth in claim 5, characterized in that said electrically conductive portion comprises lips or tabs for securing said shaped seal to said flange or to said frame.
- 7. The shaped seal as set forth in claim 1, characterized in that said anti-trap guard portion comprises a hollow chamber in which at least one of said electrically conductive portions is arranged.
- 8. The shaped seal as set forth in claim 7, characterized in that said hollow chamber serves to seal said powered closing device.
- 9. The shaped seal as set forth in claim 1, characterized in that said electrically conductive portion provided separate from said carrier, said flange, or said frame comprises a metallic conductor.

REMARKS

The forgoing Preliminary Amendment removes the multiple dependent claims.

Favorable action is requested.

Respectfully submitted,

Stephen B. Salai

Registration No. 26,990

Harter, Secrest & Emery LLP

1600 Bausch & Lomb Place

Rochester, New York 14604-2711

Dated: September 21, 2001

Bpt=

10 November 29 AUG 2002

Shaped Seal for Sealing a Power-Operated Closing Device (amended) Description

The present invention relates to a shaped seal or sealing profile for weathersealing a powered closing device, including an anti-trap guard comprising at least two electrically conductive portions spaced away from each other, whose contact triggers a switching action for activating the drive assembly of the closing device in which at least one of these portions is electrically conductive connected to a metallic conductor to reduce the volume resistivity.

A generic sealing profile is known from DE 197 20 713 C1 originated to the same Applicant. This known sealing profile comprises two electrically conductive portions spaced away from each other, in each of which a metallic conductor is embedded to reduce the volume resistivity. The disadvantage in making use of these two metallic conductors is that they take up a lot of room, relatively, and add to the price and weight of the sealing profile whilst complicating production since both metallic conductors need to be coextruded.

Furthermore, FR 1.549.640 A discloses an anti-trap guard for a powered window wherein a sealing profile is incorporated in a frame. This sealing profile comprises an electrically conductive insert which contacts the frame configured as an electrical conductor in a trapped situation so as to trigger a switching action. In the trapped situation the insert, together with the sealing profile, is shifted relative to the frame, wherein flexible tongues on the sealing profile ensure that the sealing profile returns to its original

position. Actual practice has shown such a configuration to be unsatisfactory.

It is thus the objective of the present invention to sophisticate a generic sealing profile to achieve cost-effective production for a low price, weight and space requirement.

(continuation as of page 2 of the original description)

This is of advantage when a carrier of an electrically non-conductive material, or a carrier insulated from the electrically conductive portion, is used. The recesses also make it possible in these cases to produce an electrically conductive connection from one side of the carrier to the other.

Advantageously the electrically conductive portion extends up to the outer side of the sealing profile to thus produce an electrical contact with the flange or frame to which the sealing profile can be secured without an additional electrical conductor needing to be provided, i.e. the sealing profile merely requiring to be secured, as usual, to the flange or frame.

In another advantageous aspect, the electrically conductive portion comprises lips or tabs for securing the sealing profile to the flange or frame. These lips or tabs are pressed into contact with the flange or frame to produce a good electrical contact so that the volume resistivity of the sealing profile can be reliably diminished.

In another advantageous further embodiment the anti-trap guard portion comprises a hollow chamber in which at least one of the electrically conductive portions is arranged. Advantageously, one of the electrically conductive portions is arranged at the inner side of the hollow chamber whilst the other protrudes into the hollow chamber to thus achieve a reliable contact between the electrically conductive portions, irrespective of the anti-trap guard.

In yet another advantageous aspect the hollow chamber serves to weatherseal the powered closing device. The anti-trap guard portion of the sealing profile in accordance with the invention then satisfies a dual function whilst eliminating the need for additional elements for weathersealing the closing device in thus further reducing the space requirement

and weight as well as the price of the sealing profile in accordance with the invention.

Advantageously the electrically conductive portion, provided separate from the carrier, flange or frame, comprises a metallic conductor, as a result of which the volume resistivity in this portion too is considerably reduced.

The invention will now be detailed by way of example embodiments as shown in the drawing diagrammatically in which:

- Fig. 1 is a cross-section through a first embodiment of the sealing profile in accordance with the invention;
- Fig. 2 is a cross-section through a second embodiment of the sealing profile in accordance with the invention;
- Fig. 3 is a cross-section through a third embodiment of the sealing profile in accordance with the invention;
- Fig. 4 is a cross-section through a fourth embodiment of the sealing profile in accordance with the invention; and
- Fig. 5 is a system diagram of the principle involved.

Referring now to Fig. 1 there is illustrated a first embodiment of a sealing profile 10 in accordance with the invention. The sealing profile 10 comprises a clamping portion 11 as well as a sealing portion 12. Further provided is a cover 13 with which components (not shown) are covered after the sealing profile 10 has been secured in place. For securing it in place, the clamping portion 11 comprises a recess 14 into which several lips 15 and protuberances 16 protrude. The recess 14 is clasped by a carrier 17 having a U-shaped cross-section. For securing it in place, the recess 14 of the clamping portion 11 is mounted on a flange as evident from Fig. 5. In this arrangement the lips 15 and protuberances 16 are

firmly pressed against the flange in preventing release of the sealing profile 10.

The sealing portion 12 comprises a hollow chamber 18 which at its side facing a window pane 25 is provided with a friction-reducing coating 23, more particularly a flake coating. The window pane 25 is movable in the direction of the arrows 24. When the window pane 25 is closed the hollow chamber 18 is deformed so that the desired weatherseal is furnished.

The sealing profile 10 comprises further an anti-trap guard portion 32. The anti-trap guard portion 32 includes two electrically conductive portions 19, 20 spaced away from each other by an interspace 21. As soon as an object is trapped on closing of the window pane 25, the portion 19 is moved in the direction of the portion 20. Contact of the two portions 19, 20 triggers a switching action for activating the drive assembly of the window pane 25. This switching action can either halt or reverse the movement of the window pane 25.

The portions 19, 20 are made to advantage by adding an electrically conductive material to the base material of the sealing profile 10 by means of coextrusion. To reduce the volume resistivity the portions 19 comprises a metallic conductor 22. The portion 20 partly surrounds the carrier 17 configured as a metallic conductor, as a result of which the volume resistivity of the electrically conductive portion 20 is likewise diminished. No additional metallic conductor is needed for the portion 20.

In the embodiment as shown in Fig. 1 all electrically conductive components 17, 22 and portions 19, 20 are surrounded by the electrically non-

conductive material of the sealing profile 10. The sealing profile 10 is thus electrically neutral as regards its surroundings.

Three further embodiments of a sealing profile 30, 40, 50 in accordance with the invention are shown in Figs. 2 to 4, whereby like or functionally identical components are identified by the same reference numerals as in Fig. 1, for the description of which, reference is made to the above comments to avoid tedious repetition.

Referring now to Fig. 2 there is illustrated how the sealing profile 30 comprises a carrier 27 which is totally surrounded by the electrically conductive portion 20. The carrier 27 is provided with recesses 28 through which the material of the electrically conductive portion 20 penetrates. The contact surface area between the electrically conductive portion 20 and the carrier 27 is substantially increased by the recesses 28. Furthermore, any potential difference can be conducted from one side of the carrier 27 through the recesses 28 to the other side of the carrier 27 solely through the portion 20. Even when not using a non-conductive carrier 27 the inner side and outer side of the carrier 27 are electrically interconnected by the recesses 28.

The electrically conductive portion 20 extends up to the outer side of the sealing profile 30. As soon as the sealing profile 30 is secured to a flange or frame, the lips 15 and protuberances 16 of the clamping portion 11 come into electrically conductive contact with the flange or frame to thus substantially reduce the volume resistivity of the electrically conductive portion 20, this further making it possible to use a carrier 27 of a non-conductive material, such as plastics, for example.

Referring now to Fig. 3 there is illustrated how the sealing profile 40 comprises a hollow chamber 18 in the anti-trap guard portion 32. Arranged in the hollow chamber 18 are the electrically conductive portions 19, 20, the portion 20 contacting the carrier 17. Deformation of the hollow chamber 18 brings the portions 19, 20 into contact with each other in triggering the switching action as described above.

At the same time the hollow chamber 18 of the anti-trap guard portion 32 serves to seal off a powered closing device (not shown in Fig. 3). More particularly the sealing profile 40 as shown in Fig. 3 can be put to use to weatherseal an automotive sunroof.

Referring now to Fig. 4 there is illustrated a sealing profile 50 in accordance with the invention which is inserted into a substantially U-shaped frame 51 made of an electrically conductive material. The sealing profile 50 comprises a series of lips 52 having a friction-reducing coating 23 for sealing contact with the window pane 25. Tabs 53, 54 serve to secure the sealing profile 50. The electrically conductive portion 20 of the antitrap guard portion 32 clasps the frame 51 in part and extends up to the outer side of the sealing profile 50.

The sealing profiles 10, 30, 50 as shown in Figs. 1, 2 and 4 are particularly suitable for weathersealing automotive side windows. Referring now to Fig. 5 there is illustrated a system diagram of the sealing profile 30 in the fitted condition. The sealing profile 30 is mounted on a flange 26 by its clamping portion 11. The flange 26 is thus in electrically conductive contact with the electrically conductive portion 20 via the lips 15 and protuberances 16. As is usual in automotive applications, the flange 26 is grounded, whilst the electrically conductive portions 19 of the sealing profile 30 is connected to the anode of a voltage source (not shown). As

soon as the window pane 25 is lifted and the anti-trap guard portion 32 deformed, the two portions 19, 20 come into contact with each other, resulting in a switching action which is signalled to a controller 31. The controller 31 correspondingly controls a motor 29 to move the window pane 25 which halts or reverses the movement of the window pane 25.

The sealing profile 10, 30, 40, 50 in accordance with the invention permits total elimination of one of the metallic conductors hitherto required, without detrimenting the anti-trap guard and sealing function. Instead, the space requirement, weight, costs and complications in production are all substantially reduced, as compared to known sealing profiles.

ATTACHMENT A

Claims

- 1. A shaped seal (10; 30; 40; 50) for sealing a power-operated closing device (25), including an anti-trap guard (32) comprising at least two electrically conductive portions (19, 20) spaced away from each other, whose contact triggers a switching action for activating the drive assembly (29) of said closing device (25), at least one of said portions (19, 20) being electrically conductive connected to a metallic conductor (17; 26; 27; 51) to reduce the volume resistivity, characterized in that said metallic conductor is configured as a carrier (17; 27) for securing said shaped seal (10; 30; 40) and/or as a flange (26) or frame (51) to which said shaped seal (10; 30; 40; 50) is securable
- 2. The shaped seal as set forth in claim 1, characterized in that said carrier (17) contacts said electrically conductive portion (20).
- 3. The shaped seal as set forth in claim 1, characterized in that said carrier (17) is surrounded partly or fully by said electrically conductive portion (20).
- 4. The shaped seal as set forth in any of the claims 1 to 3, characterized in that said carrier (27) is provided with recesses (28).
- 5. The shaped seal as set forth in any of the claims 1 to 4, characterized in that said electrically conductive portion (20) extends up to the outer side of said shaped seal (30; 50).

- 6. The shaped seal as set forth in claim 5, characterized in that said electrically conductive portion (20) comprises lips (15) or tabs (54) for securing said shaped seal (30) to said flange (26) or to said frame (51).
- 7. The shaped seal as set forth in any of the claims 1 to 6, characterized in that said anti-trap guard portion (32) comprises a hollow chamber (18) in which at least one of said electrically conductive portions (19; 20) is arranged.
- 8. The shaped seal as set forth in claim 7, characterized in that said hollow chamber serves to seal said powered closing device (25).
- 9. The shaped seal as set forth in any of the claims 1 to 8, characterized in that said electrically conductive portion (19) provided separate from said carrier (17; 27), said flange (26), or said frame (51) comprises a metallic conductor (22).

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Class Mail No EL 871340865 US in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on September 21, 2001

Cathy Bowen

(81) Bestimmungsstaaten: JP, US, europäisches Patent (AT, BE,

CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,



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Veröffentlicht

Mit internationalem Recherchenbericht.

(54) Title: SHAPED SEAL FOR SEALING A POWER-OPERATED CLOSING DEVICE

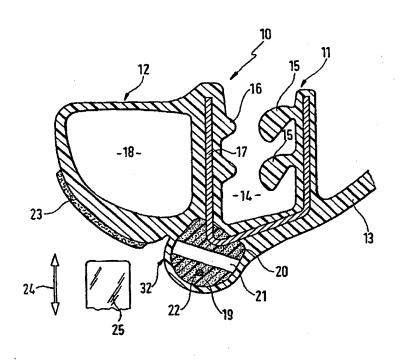
(54) Bezeichnung: DICHTUNGSPROFIL ZUM ABDICHTEN EINER KRAFTBETÄTIGTEN SCHLIESSEINRICHTUNG

(57) Abstract

The invention relates to a shaped seal (10) for sealing a power-operated closing device (25) comprising a jam-protection zone (32) which has at least two electrically conductive areas (19, 20) situated at a distance from each other. According to the invention, to save space and reduce weight and cost the carrier (17) is used as a metallic conductor for the conductive area (20) so as to reduce volume resistance. Alternatively or in addition thereto a frame can be used to which the shaped seal (10) can be fixed.

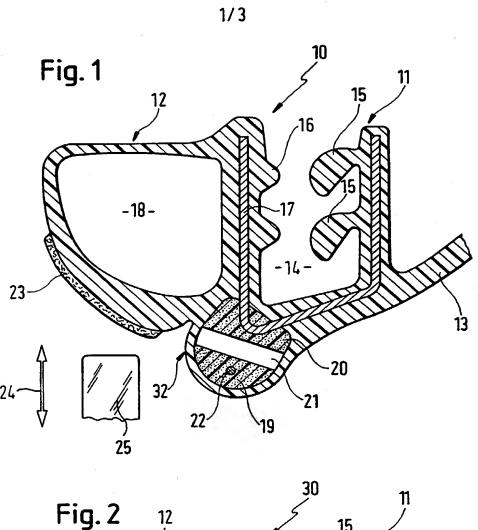
(57) Zusammenfassung

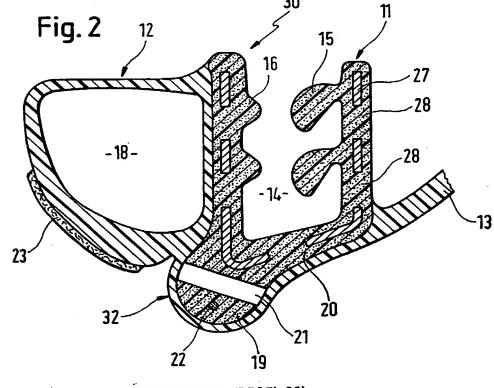
Die vorliegende Erfindung betrifft ein Dichtungsprofil (10) zum Abdichten einer kraftbetätigten Schliesseinrichtung (25) mit einem Einklemmschutzbereich (32), der mindestens zwei zueinander beabstandete, elektrisch leitfähige Bereiche (19, 20) aufweist. Erfindungsgemäss wird zur Verringerung des Platzbedarfs, des Gewichts und der Kosten der Carrier (17) als metallischer Leiter für den Bereich (20) zur Verringerung des Durchgangswiderstands genutzt, Alternativ oder zusätzlich kann ein Rahmen verwendet werden, an dem das Dichtungsprofil (10) befestigbar ist.



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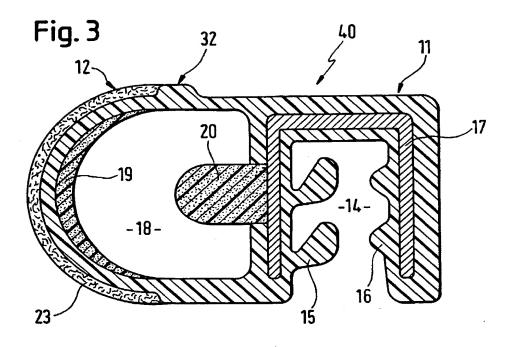


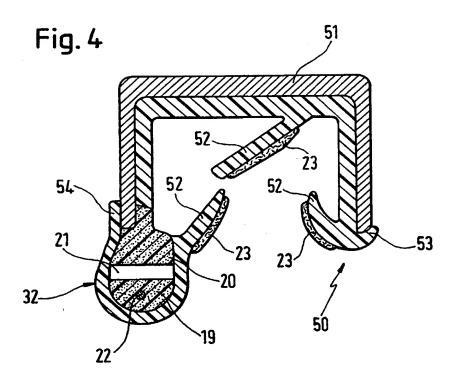
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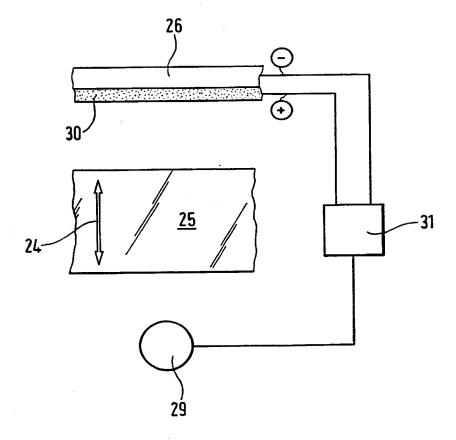


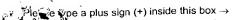
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Fig. 5





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Examiner Name

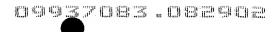
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-			EALING A POWE					
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the specification of which								
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Application Number 09/9	937,083		and was amen	ded on (MM/DI	D/YYYY) [(i	f applicable).
I hereby state that I have any amendment specificall I acknowledge the duty to I hereby claim foreign prior 365(a) of any PCT Internative also identified below application having a filing of	y referred to al disclose inform rity benefits un- tional application by checking	oove. ation which is der 35 U.S.C. on which design the box. any	material to paten 119(a)-(d) or 365 gnated at least or foreign applicati	tability as defin (b) of any foreine country other	ed in 37 CFF gn application that U	R 1.56. on(s) for patent nited States of s certificate, or	or inver America of any	ntor's certificate, or a, listed below and PCT International
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Additional foreign	n application r	numbers are lis	sted on a supplem	nental priority d		O/SB/02B atta	ched he	reto:
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I hereby claim the benefit under 35 U.S.C. 119(e) of ar Application Number (s)		Filing Date (MM/DD/YYYY)			Additional provisional application numbers are listed on a supplemental priority data sheet Patent and Trademark Office/SB/02B attached hereto			

[Page 1 of 3]

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DECLARATION - UTILITY OR DESIGN PATENT APPLICATION

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